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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Entomology and Plant Quarantine
Washington 25, D. C.



December 20 1943

The attached statement summarizes the results of trap scouting carried on during the summer of 1943 to secure information on the distribution and possible status of the Japanese beetle in localities outside the area regulated by Federal quarantine. It includes: (1) A list of all the localities outside the regulated area where trap scouting was carried on with positive results and the number of beetles found during the seasons from 1934 to 1943 inclusive, and (2) a list of the localities where soil treatments have been applied in isolated areas from 1941 to date. The tabulation on soil treatments includes an estimate of the acreage to be treated as a result of the collections made during 1943.

The list of localities where soil treatments have been applied as a part of the cooperative State and Federal effort to combat outlying incipient infestations to delay the time when they may cause damage or become new centers of spread shows the interest there is in this phase of the Japanese beetle program. The soil treatment referred to involves the application of lead arsenate at the rate of 500 pounds per acre. The area to be covered by the treatment is determined following field inspection of localities where beetles are collected during the trapping season. Treatment of soil with arsenate of lead is generally recommended for an area within a 300-foot radius of all localities where female beetles or more than one specimen of either sex are collected. In sections where only a solitary male beetle is collected the application of soil treatment is not urged. Such sites are, however, sometimes included in the area treated and in some instances treatment is applied beyond the usual radius as added precautions.

The effectiveness of soil treatment as appraised by the collections of beetles the following season depends in part on the time of the year when the treatment is applied. The importance of this factor is becoming more generally recognized and this season soil treatments have been applied as early as conditions and facilities including equipment and labor, permitted. A proportionately larger amount of the soil treatment proposed as a result of the collections of the past season has been applied than has been the case in preceding years. Plans for treatment in other areas indicate that the work can be done as early as seasonal conditions permit.

At present it appears that the suppressive measures which have been applied or are proposed for localities outside the regulated area and in non-quarantined States together with the State quarantine action as to certain outlying areas, will assure protection from spread at least comparable with that obtained if the Federal quarantine were extended. Immediate extensions of the area regulated under the Federal quarantine on the Japanese beetle as a result of the season's trapping records therefore, will be limited to two election districts in Maryland and two cities in West Virginia. Should it later develop that soil treating programs contemplated for certain localities in Virginia cannot be carried out in the spring, it may be necessary to review the situation in reference to these to assure appropriate protection to uninfested areas. The necessity of holding a hearing or conference to consider the extension of the regulated area or modification of the regulations

prior to a revision of the quarantine regulations can be avoided. It is expected that the revised quarantine and regulations will be issued in the near future. In addition to the extension of the regulated area referred to above, the revision will provide for lessening the restrictions on certain regulated products without involving change in risk from artificial spread. The revision will also provide other modifications in form in the interest of simplification, with the hope that the requirements will be more concisely and simply stated than heretofore.

The accompanying statement is similar to any report on current conditions that might be presented at a public conference. It is issued to make available to State plant quarantine officials and other interested parties the latest information on the distribution and status of the Japanese beetle in areas not now included under Federal quarantine and to acquaint them of the proposed modification of the regulations.

P. N. ANNAND
Chief of Bureau

Attachments - 3

REPORT OF RESULTS OF JAPANESE BEETLE TRAPPING
AND CONTROL OPERATIONS DURING 1943

Trapping to determine spread of the Japanese beetle in 1943 largely paralleled that of the previous year. Traps that had been reclaimed from previous year's use and stored in the field were the only ones available. Local labor, trained as the traps were placed, was employed. With the necessity for conservation of traps and labor, most of the activities were confined to localities in which combined trapping and soil treating work had been carried on in previous years for control of the insect, or to communities in which incipient or apparently negligible infestations had been discovered. This left a small margin of traps for setting in localities not previously trapped.

From the 55,354 inexpensive scout traps used in 1942, it was possible to salvage 41,993 for the current year's activities. As was the case in 1942, trapping was performed in 17 States, but the number of localities included in the program was reduced from 242 to 161.

Results of the Maryland State trapping show relatively heavy infestations in Hancock, Hughesville, and Siebert, with negligible infestations in Flintstone, Oakland, Leonardtown, and Mechanicsville. Hancock and Siebert are to be included in the regulated area. Hughesville is located in a somewhat isolated tobacco-growing section, with no nursery plantings in the vicinity. The State has distributed milky disease spore material throughout Hughesville and, therefore, quarantine action there this year is being deferred.

Trap captures in Canandaigua, Dunkirk, Lyons, Medina, Newark, North Tonawanda, and Plattsburg, New York, were of a few beetles each. Infestations persisted in Avon, Jamestown, Silver Creek, and Waterloo. Soil treatments completed in the latter four communities in May and June 1943 were too late to affect materially emergence of adults this season and many of the beetles were trapped in or near the treated sections. In Newark and Niagara Falls, where treatments have been applied in previous years, the captures were reduced to 1 and 71 beetles, respectively, compared with the 65 and 216 beetles caught in these cities in 1942. The numbers of beetles collected at Geneva and Ogdensburg, compared with collections during previous seasons, indicate established infestations. Trapping in Westfield disclosed 27 beetles, where solitary beetles were trapped in both 1932 and 1933. Through excellent cooperation of local and State officials it was possible to complete all the required treatments this fall. The treating program was the most extensive ever undertaken in this State.

Four negligible first-record collections were made in Ohio at Fostoria, Fowlers Mill, Lima, and Willard. Infestations in the many State control areas showed varied results. Fewer beetles were turned up in Bellevue, East Conneaut, Callipolis, Rockbridge, and South Zanesville. Increases were noted in Ashtabula and Marietta. The remaining infestations were largely those that persisted at about the 1942 level, with little variation in the number of beetles captured. A comprehensive cooperative soil treating program, continuing the activities of previous years, was proposed by the State and the treatment work largely completed.

Trapping in the small Pennsylvania non-regulated area was limited to a group of traps in Greenville, where 14 beetles were caught.

There was no repetition of the infestation in Barre, Vt. Following the capture of 17 beetles there in 1942, a small acreage was treated with arsenate of lead. This year's negative results suggest that this small infestation may have been eradicated.

The largest number of beetles trapped at any point in the non-regulated area of Virginia this year was 25 in Lynchburg. Traps have been placed there in all except three years since 1932, when two beetles were collected, without collecting any more. Approximately the same number of beetles were also collected in Harrisonburg, Lexington (a first-record), and Woodstock. Small numbers of beetles were collected at Luray, Staunton, Waynesboro, and Williamsburg. The effect of soil treatments applied in March and April 1943 at Harrisonburg, Luray, and Woodstock should be more evident next year. At Bristol, Virginia-Tennessee, 29 beetles were collected, five of which were in that part of the city which is in Tennessee. The application of soil treatments in the communities where the conditions indicate they would be justified has now been arranged for by the State and cooperating municipal officials.

Half of the six localities where beetles were trapped in West Virginia this year were first-records. In the absence of applying suppressive measures the 21 and 19 beetles respectively, at Princeton and Williamstown are of sufficient importance to warrant quarantine extension. The collections at the remaining points in West Virginia are only a few beetles each.

All trapping in three cities each in Florida and Wisconsin was with negative results.

Trapping in Georgia showed that infestations had persisted in Atlanta, Augusta, East Point, and Toccoa. In cooperation with the State soil treatments have been applied in Atlanta, Augusta, and Toccoa. The five beetles caught at East Point were found at widely scattered locations and soil treatment at this locality is deferred.

The collections in Illinois indicate there has been a reduction in the infestation at Highland Park. The number of beetles caught in both Chicago and East St. Louis is larger than last year. Solitary beetles were trapped in Cicero and Oak Park. In cooperation with the State, lead arsenate will be applied to all important infestations outside the previously treated areas in the State.

The capture of only 17 beetles at Richmond, Indiana where 556 had been trapped in 1942 indicates reduction in the infestation there as a result of trapping-soil treating programs. Infestations in Elkhart, Fort Wayne, Hammond, Indianapolis, and Logansport remained at about the same level. The work of applying lead arsenate to acreages where treatment should be applied as a result of this year's collections has been completed as a part of the cooperative effort.

In Michigan the trapping resulted in the collection of beetles in five cities in which infestations had been found in 1942. Fewer beetles were caught in Flint, but in both Detroit and River Rouge the number collected was greater than in 1942. Catches in Dearborn and Melvindale were limited to a few beetles each. Soil treating at areas where the infestation can be outlined has been completed.

At St. Louis, Missouri 14 beetles were collected as compared with 6 specimens caught there last year. Soil treatments in the city were completed shortly after the boundaries of the areas to be treated were delimited.

In North Carolina the most important development this year was the discovery in mid season of an infestation at Blowing Rock a small community at the junction of U S Highways 221 and 321 in the mountains in the northwestern section of the State. Over 17,000 beetles were trapped at this point which is remote from any other known infestation. Blowing Rock is a vacation resort, at an altitude of somewhat greater than 3,600 feet, with some accommodations for tourists. It has no railroad and receives rather than ships products that are regulated under the quarantine. The infestation has apparently been established for a number of years and is centered in the two blocks of the town. A few beetles were found on a number of adjoining estates and on a golf course. The main hazard of spread from this point is by carriage of adult beetles by automobile. A cooperative suppressive program of soil treatment and colonization of milky disease has been completed this fall and an intensive trapping program will be carried on next season. At Hendersonville, where 1,718 beetles were trapped in 1942, only 785 beetles were collected this season. In the late fall of 1942 soil treatment was applied to 100 acres and an additional 75 acres are being treated this fall. In addition milky disease is being closely colonized in spots where the lead arsenate cannot be used. Beetles were collected at seventeen other localities where they have been collected in previous years. At most of these the number of beetles collected was fewer than collected last season. Soil treatment has been applied at all of the locations where collections indicate additional areas should be treated. Asheville is still in a status of a separate control area, and along with East Spencer and several other infestation centers is included within the State quarantined area.

Beetles were again trapped in Florence and Greenville, South Carolina. Soil treatments were applied in these two cities in May 1943 which was too late in the season to have appreciable effect in reducing emergence this year. The 76 beetles collected in Florence were concentrated in the treated area, indicating that the area where infestation is established has been protected. The 20 beetles captured in Greenville were scattered, 3 beetles being the largest number taken in a single block. In addition a few beetles each were collected in Charleston and Spartanburg.

Trapping in Tennessee resulted in the capture of five beetles each in Bristol and Kingsport, the collections at Bristol being in addition to the 24 beetles collected in the Virginia section of this bi State city, where soil treatment has been applied to sections where the beetles were captured.

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BU. 450-1
CHICAGO

JAPANESE BEETLE TRAPPING
OUTSIDE PRESENT REGULATED AREA
1934 - 1943

POSITIVE RESULTS

Location	1943		1942		1941		1940		1939		1938		1937		1936		1935		1934	
	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.
FLORIDA																				
Jacksonville	12	-	295	1	600	-	600	5	-	-	-	-	792	-	-	-	-	-	-	-
Miami	16	-	300	1	300	-	600	2	12	-	12	-	778	-	-	-	-	-	-	-
Tampa	-	-	300	-	600	-	600	1	-	-	-	-	796	-	-	-	-	-	-	-
GEORGIA																				
Atlanta	1000	8	1025	4	2369	24	3109	32	3200	40	3033	122	1487	6	396	-	-	-	-	-
Augusta	292	11	300	5	-	-	-	-	400	-	-	-	392	-	392	1	-	-	-	-
Chamblee	25	-	25	-	64	2	50	17	-	-	-	-	-	-	-	-	-	-	-	-
East Point	100	5	100	4	350	7	440	137	400	142	-	-	-	-	-	-	-	-	-	-
Gainesville	-	-	100	-	300	1	200	2	-	-	50	-	-	-	-	-	-	-	-	-
Jonesboro	-	-	-	-	-	-	83	-	60	-	15	3	-	-	-	-	-	-	-	-
Savannah	-	-	297	-	-	-	12	-	298	-	12	1	800	-	395	1	-	-	-	-
Toccoa	100	21	50	3	100	-	123	2	92	-	-	-	100	-	-	-	-	-	-	-
ILLINOIS																				
Bloomington	-	-	200	1	300	1	-	-	-	-	-	395	-	-	-	-	-	-	-	-
Chicago	5738	257	7550	170	9200	407	10000	462	9838	549	9926	330	9980	384	7500	3740	3065	39	1038	6
Cicero	300	1	-	-	400	-	800	-	800	2	600	5	400	1	-	-	-	-	-	-
East St. Louis	300	16	599	1	600	10	600	5	800	24	800	1	1234	3	1102	2	1060	3	804	1
Elgin	-	-	-	-	300	-	-	-	-	-	385	-	-	-	-	-	-	-	-	-
Evanston	-	-	400	-	400	-	800	-	800	16	600	1	400	20	-	-	-	-	-	-
Highland Park	400	63	600	173	1100	5608	-	-	-	-	200	-	-	-	-	-	-	-	-	-
Highwood	100	-	200	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oak Park	300	1	-	-	300	-	300	1	-	-	600	-	800	-	-	-	-	-	-	-
INDIANA																				
Bedford	-	-	99	-	240	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluffton	-	-	-	-	-	-	250	-	-	300	3	-	-	-	-	-	-	-	-	-
East Chicago	-	-	-	-	-	-	-	-	-	300	-	-	-	-	-	-	-	-	-	-
Elkhart	415	30	289	6	322	299	77	1600	105	300	1	400	-	-	-	-	-	-	-	-
Fort Wayne	555	24	596	4	1236	33	1200	52	1600	105	1600	20	800	18	399	5	-	-	-	-
Hammond	200	24	400	8	324	300	300	50	300	3	400	-	400	-	-	-	-	-	-	-
Indianapolis	965	32	1195	7	2514	21	2700	160	3280	76	3600	10	3500	12	3500	28	2434	57	792	17
Logansport	300	7	300	9	195	5	313	13	400	98	400	8	300	1	-	-	-	-	-	-
Muncie	-	-	-	-	195	-	-	-	400	1	400	-	400	-	-	-	-	-	-	-
Newcastle	-	-	200	-	200	-	200	2	-	-	-	-	-	-	-	-	-	-	-	-
Richmond	300	17	298	556	327	4	300	7	400	1	-	-	400	-	398	-	-	-	-	-
South Bend	-	-	-	-	1126	-	1200	12	1600	-	1600	8	800	43	400	3	-	-	-	-
Terre Haute	-	-	400	1	430	18	-	-	-	-	-	-	-	-	397	-	-	-	-	-
Warsaw	-	-	100	-	195	2	194	60	300	2	-	-	-	-	-	-	-	-	-	-
Whiting	100	-	400	-	300	1	300	4	250	18	100	1	200	-	-	-	-	-	-	-
IOWA																				
Ft. Madison	-	-	-	-	-	-	-	200	-	200	1	-	-	-	-	-	-	-	-	-
KENTUCKY																				
Lexington	-	-	274	1	1223	1	1200	4	600	13	597	1	391	1	400	1	-	-	-	-
Louisville	-	-	590	1	1223	1	1200	4	1600	13	1566	62	800	10	800	2	-	-	-	-
MAINE																				
Augusta	-	-	-	-	-	-	-	-	-	300	-	-	-	253	-	200	1	204	1	-
Bangor	-	-	-	-	-	-	325	9	400	5	260	3	-	301	-	293	1	204	-	-
Bar Harbor	-	-	-	-	-	-	95	4	-	-	100	-	-	172	-	120	-	201	-	-
Bath	-	-	-	-	-	-	-	-	150	-	200	2	-	175	-	203	-	202	-	-
Brunswick	-	-	-	-	-	-	-	-	175	-	200	1	-	71	-	84	-	120	-	-
Ellsworth	-	-	-	-	-	-	115	-	100	-	100	1	-	125	-	72	-	-	-	-
MARYLAND																				
Chaptico	-	-	9	-	15	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flintstone*	8	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hancock	102	118	150	60	150	8	100	10	-	-	102	-	-	24	-	23	1	24	2	-
Hughesville	50	84	50	18	-	-	-	-	-	-	64	-	10	14	-	20	-	20	-	-
Leonardtown	85	1	131	-	100	7	225	4	-	1	192	-	10	20	-	25	3	25	-	-
Mechanicsville	41	7	68	5	-	-	-	-	-	-	50	-	10	10	-	10	-	10	-	-
Oakland*	30	7	-	-	-	-	-	-	25	-	-	-	30	-	-	-	-	-	-	-
Siebert*	26	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICHIGAN																				
Birmingham	200	-	161	5	200	2	200	-	200	6	-	-	796	6	398	1	-	-	-	-
Dearborn	300	2	366	1	400	5	400	-	400	-	780	1	796	6	398	1	-	-	-	-
Detroit	3580	86	5056	32	7000	225	6000	252	5250	115	5313	82	5045	67	4686	128	790	23	792	10
Flint	704	37	197	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grosse Pointe Farms	-	-	-	-	100	-	200	-	25	5	-	-	-	-	-	-	-	-	-	-
Highland Park	-	-	-	-	-	-	-	-	400	-	200	2	200	-	-	-	-	-	-	-
Lincoln Park	100	-	89	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Melvindale	100	1	100	4	100	2	100	1	200	5	-	-	-	-	-	-	-	-	-	-
Pontiac	-	-	-	-	179	-	-	-	200	-	50	1	398	-	-	-	-	-	-	-
River Rouge	200	24	100	1	-	-	-	-	-	-	200	-	-	-	-	-	-	-	-	-
MISSOURI																				
Bridgeton (St. Louis- Lambert Field)	19	-	77	1	108	3	51	1	-	-	-	-	-	-	-	-	-	-	-	-
St. Louis	2379	14	7921	6	10168	15	12299	30	12230	26	12500	27	12557	1	11562	88	10070	1232	2604	1351
NEW HAMPSHIRE																				
Woodsville	-	-	-	-	-	-	-	1	-	12	-	-	-	100	-	-	-	-	-	-

* First-record

JAPANESE BEETLE TRAPPING
1934 - 1943

Location	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934
	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.	Traps J.B.
NEW YORK										
Albion	-	-	30	-	-	100	1	-	-	-
Alexander Bay	-	99	100	-	-	-	-	-	-	-
Aven	97	37	106	18	-	-	-	-	-	-
Batavia	-	100	-	300	1	400	1	200	-	-
Beth	-	100	2	30	-	-	-	-	204	84
Cananogue	298	4	200	200	2	200	5	100	-	-
Caneyville	200	104	-	200	1	300	116	100	-	60
Dunkirk	200	11	30	30	-	20	1	40	-	-
Geneva	196	37	200	159	4	200	5	300	15	200
Hammonton	-	97	-	-	-	40	21	1	-	-
Jonestown	100	100	-	-	-	-	-	-	-	-
Lockport	100	100	1	200	-	-	-	-	-	-
Lowville	100	77	1	-	-	-	99	-	-	-
Lyons	100	1	-	40	-	-	-	-	-	-
Melone	192	20	1	200	1	12	4	-	-	-
Monaca	-	-	200	-	-	-	-	-	-	-
Mayville	-	-	-	-	30	1	100	1	-	-
Medina	300	2	-	200	-	-	30	-	-	60
Newark	200	1	300	299	44	200	21	200	2	158
Niagara Falls	200	71	300	210	320	510	-	-	-	-
North Tonawanda	200	7	300	4	-	-	-	-	-	-
Oceansburg	200	110	100	14	300	15	-	-	-	-
Oran	-	-	-	-	-	-	-	-	-	-
Palmyra	200	100	30	1	40	-	-	-	-	-
Penn Yan	-	100	3	40	-	-	-	-	-	-
Plattsburg	282	5	242	14	301	4	-	-	-	-
Rouses Point	100	-	100	5	-	-	-	-	-	-
Seneca Falls	100	100	1	-	55	60	1	100	-	-
Silver Creek	100	100	104	-	-	-	-	-	-	-
Waterloo	100	100	100	30	-	-	-	-	-	-
Westfield	100	100	-	-	-	200	-	-	-	-
NORTH CAROLINA										
Blowing Rock	100	17005	-	-	-	-	-	-	-	-
Charlotte	100	100	200	300	62	300	34	200	5	-
Cherokee	100	5	500	600	12	600	37	800	36	-
Durham	300	2	600	593	27	600	58	800	29	800
East Spencer	100	127	100	200	200	985	200	640	100	15
Elizabeth City	100	38	199	31	300	53	200	29	350	46
Fayetteville	100	100	100	7	-	-	-	-	-	-
Gastonia	100	50	200	100	-	-	-	-	-	-
Goldensboro	100	100	200	2	200	2	197	3	-	-
Greensboro	100	100	100	98	900	100	1000	334	100	5
Hickory	100	4	200	3	-	-	97	1	100	98
Henderson	-	-	40	-	-	-	-	-	-	-
Hendersonville	195	785	100	1718	5	-	-	-	-	-
High Point	300	9	300	18	597	84	600	77	800	37
Kinston	-	-	100	-	197	4	200	8	196	11
Lexington	-	-	-	-	-	-	-	-	-	-
Lumberton	-	-	-	-	-	-	-	-	-	-
Onslow	-	-	-	-	-	-	-	-	-	-
Raleigh	500	13	593	46	599	68	600	33	606	12
Reidsville	300	19	100	4	-	-	-	-	-	-
Rocky Mount	300	14	100	16	301	20	300	12	200	10
Salisbury	200	98	215	29	300	232	200	87	300	30
Shelby	100	100	100	100	100	11	100	38	96	16
St. George	100	1	100	-	246	52	200	157	300	374
St. Georgeville	100	1	100	-	-	-	-	-	-	-
Tarboro	100	-	100	-	-	-	-	-	-	-
Thomasville	100	-	107	1	-	-	-	-	-	-
Waco Forest	-	-	-	-	-	-	-	-	-	-
Waynesville	90	-	50	1	-	-	-	-	-	-
Weldon	100	-	93	97	13	100	3	-	-	-
Wilmington	270	38	407	18	600	52	600	43	600	90
Wilson	200	12	200	11	198	8	200	3	200	4
Winston-Salem	402	4	500	23	1195	97	1200	360	1000	1182
OHIO										
Ashtabula	300	169	300	38	340	108	299	53	400	97
Athens	100	1	100	198	100	-	100	1	-	-
Bellefontaine	300	125	125	213	100	94	102	191	100	124
Bellevue	100	72	100	100	200	5	200	3	-	-
Buckeye	100	100	100	200	1	25	-	-	-	-
Cincinnati	100	1	100	25	-	-	-	-	-	-
Cincinnati (City)	200	0	257	5	-	-	-	-	-	-
Cincinnati (Lunken Airport)	100	6	100	31	1	-	-	-	-	-
Conneaut	260	34	303	32	365	159	300	371	200	184
East Conneaut	140	16	35	120	91	-	-	-	-	-
Orestline	200	24	100	20	-	-	-	-	-	-
Alvira	-	-	200	-	300	1	299	1	400	2
Porter	200	2	-	-	300	-	-	-	-	-
Powder Mills	15	1	-	-	-	-	-	-	-	-
Gallopis	300	329	295	2520	200	444	200	769	200	217
Lancaster	300	100	100	-	-	-	-	-	-	-
Lima	200	1	200	300	-	-	-	-	-	-
Lorain	200	7	200	-	-	-	-	-	-	-
Marietta	300	434	199	126	300	10	300	38	300	48
Marion	200	50	300	23	-	-	-	-	-	-
Millersburg	-	-	100	50	1	42	-	-	-	-
Mount Vernon	200	-	200	5	85	-	200	-	-	-
Nelsonville	100	1	93	2	-	-	-	-	-	-
New Concord	100	19	97	6	25	1	35	1	26	-
Rowak	40	34	200	1	55	-	100	1	200	-
Rockbridge	200	2	100	167	-	-	-	-	-	-
Sanctus	200	2	100	318	175	1076	-	-	-	-
South Zanesville	100	29	100	1	-	-	-	-	-	-
Tiffin	200	-	300	-	300	-	-	-	-	-
Van Wert	-	-	100	-	321	1	-	-	-	-
Washington C. H.	100	-	-	-	-	-	-	-	-	-
Willard	100	1	-	-	-	-	-	-	-	-
Zanesville	200	4	200	5	298	1	300	23	200	5

* First-record

JAPANESE BEETLE TRAPPING
1934 - 1943

Location	1943		1942		1941		1940		1939		1938		1937		1936		1935		1934	
	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.
PENNSYLVANIA																				
Greenville	300	14	-	-	300	5	300	2	200	1	-	-	100	-	195	-	-	-	-	-
SOUTH CAROLINA																				
Charleston	25	2	255	1	300	5	300	12	-	-	794	2	783	2	730	11	755	-	-	-
Columbia	300	-	399	1	-	-	-	-	-	-	-	-	782	-	800	-	555	-	-	-
Florence	200	76	100	43	200	7	200	8	12	-	12	-	297	-	300	-	306	-	-	-
Greenville	600	20	300	16	596	18	900	12	800	5	765	6	750	1	794	33	799	89	204	2
Spartanburg	300	1	300	1	300	1	-	-	-	-	-	-	398	-	399	-	400	-	-	-
Sumter	200	-	200	1	-	-	-	-	-	-	-	-	-	-	200	-	200	-	-	-
TENNESSEE																				
Bristol	100	5	131	2	-	-	-	-	200	-	172	-	151	-	175	4	-	-	-	-
Kingsport*	183	5	-	-	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	-
VERMONT																				
Barre	197	-	192	17	293	21	10	-	12	-	12	-	26	-	200	-	-	-	-	-
Montpelier	-	-	196	-	198	1	10	-	12	-	12	-	26	-	200	-	-	-	-	-
VIRGINIA																				
Ashland	-	-	-	-	-	-	-	-	-	-	29	-	60	-	50	1	100	7	102	-
Berryville	-	-	-	-	100	9	100	7	30	3	33	-	-	-	-	-	-	-	36	-
Bristol	100	24	147	7	-	-	-	-	200	-	186	4	145	2	125	1	-	-	-	-
Buena-Vista	-	-	-	-	-	-	-	-	-	-	59	-	100	1	100	-	-	-	-	-
Clifton Forge	-	-	-	-	-	-	-	-	-	-	-	-	84	-	100	1	-	-	-	-
Columbia	-	-	10	1	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-
Courtland (Southampton County)	-	-	-	-	5	-	20	1	-	-	-	-	-	-	10	-	-	-	-	-
Dayton	-	-	20	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Franklin (Southampton County)	-	-	100	-	35	1	43	-	-	-	-	-	22	-	25	-	-	-	-	-
Harrisonburg	200	22	100	18	40	4	200	5	-	-	199	6	197	1	200	-	200	2	228	-
Hopewell	-	-	-	-	-	-	-	-	-	-	130	-	200	-	200	-	200	1	180	-
Lexington*	100	23	-	-	-	-	-	-	-	-	-	-	92	-	100	-	-	-	-	-
Luray	100	3	95	7	20	1	10	1	-	-	44	1	-	-	25	-	40	-	40	-
Lynchburg	200	25	-	-	300	-	-	-	400	-	-	-	789	-	399	-	394	-	192	-
Milford	-	-	-	-	-	-	-	-	22	1	17	3	10	-	5	-	-	-	12	-
Mineral	-	-	12	1	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
Mt. Jackson	-	-	45	1	10	1	10	-	-	-	8	-	-	-	-	-	-	-	12	-
New Market	-	-	45	2	14	1	20	-	-	-	20	3	-	-	25	-	25	-	25	-
Orange	-	-	-	-	8	-	-	-	25	-	30	-	30	-	-	-	48	2	48	-
Rappahannock Academy	-	-	-	-	-	-	-	-	18	1	-	-	-	-	-	-	-	-	-	-
Salem	-	-	87	3	-	-	-	-	-	-	-	-	-	-	100	-	96	-	-	-
South Hill	-	-	92	-	10	-	30	-	-	-	-	-	20	1	15	-	-	-	-	-
Staunton	200	6	-	-	24	-	-	-	-	-	198	7	200	2	200	-	192	3	192	-
Stephens City	-	-	-	-	5	2	-	-	10	-	10	-	-	-	-	-	-	-	36	-
Strasburg	-	-	-	-	13	-	25	2	-	-	10	-	-	-	-	-	-	-	-	-
Timberville	-	-	-	-	-	-	10	1	-	-	-	-	-	-	-	-	-	-	-	-
Unionville	-	-	-	-	-	-	-	-	20	1	9	-	-	-	-	-	-	-	-	-
Warsaw	-	-	-	-	-	-	-	-	20	-	15	1	10	-	-	-	-	-	-	-
Waynesboro	200	10	-	-	23	-	-	-	-	-	-	-	-	-	100	-	96	1	-	-
Williamsburg	100	1	160	7	-	-	-	-	-	-	40	-	35	-	22	-	-	-	35	-
Woodstock	100	19	97	67	9	4	25	5	-	-	30	-	-	-	25	-	-	-	-	-
WEST VIRGINIA																				
Beckley*	100	10	-	-	-	-	-	-	-	-	30	-	-	-	-	-	200	-	-	1
Berkeley Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	36	-
Bluefield	100	9	-	-	-	-	-	-	-	-	-	-	-	-	285	-	396	-	228	-
Elkins	-	-	99	3	-	-	-	-	70	2	-	-	125	-	-	-	-	-	-	-
Huntington	200	4	-	-	-	-	-	-	-	-	593	-	796	2	400	2	400	1	-	-
Pennsboro	-	-	98	9	19	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Princeton	100	21	100	11	-	-	-	-	-	-	-	-	100	2	97	4	150	3	168	6
St. Albans	-	-	23	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Marys	100	3	-	-	30	-	25	1	-	-	40	-	-	-	-	-	-	-	-	-
Williamstown*	100	19	-	-	-	-	-	-	-	-	30	-	12	-	-	-	-	-	-	-

* First-record

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

AT ISOLATED INFESTATIONS

1941-1944

State and City	Japanese Beetles Trapped 1941 (Number)	Soil Treatments Fall 1941 and Spring 1942 (Acres)	Japanese Beetles Trapped 1942 (Number)	Soil Treatments Fall 1942 and Spring 1943 (Acres)	Japanese Beetles Trapped 1943 (Number)	Soil Treatments Fall 1943 or Proposed for Spring 1944 (Acres)	
GEORGIA							
Atlanta	24	10.9	4	-	8	2.5	(C)
Augusta	-	-	5	-	11	1.5	(C)
Chamblee	2	.8	0	-	0	-	-
Toccoa	0	-	3	-	21	1.5	(C)
ILLINOIS							
Chicago	407	92.5	170	46.4	257	178.8	(C-T)
Cicero	0	-	-	-	1	-	-
East St. Louis	10	-	1	-	16	9.5	(C)
Highland Park	5,608	77.3	173	20.0	63	28.2	(C)
INDIANA							
Elkhart	3	15.1	6	-	9	5.0	(T)
Fort Wayne	5	8.15	4	-	8	5.0	(T)
Hammond	3	8.55	8	-	24	32.6	(C)
Indianapolis	21	24.0	7	-	32	64.0	(C-T)
Logansport	5	1.35	9	5.7	7	14.0	(T)
Richmond	4	13.3	556	18.9	17	36.0	(C)
Terre Haute	18	32.1	1	-	-	-	-
MICHIGAN							
Birmingham	2	3.6	5	4.6	0	-	-
Dearborn	2	9.2	1	2.1	2	-	-
Detroit	225	57.0	32	36.0	85	90.0	(C)
Flint	-	-	800	45.7	34	37.7	(C)
Lincoln Park	-	-	2	4.1	0	-	-
Melvindale	2	3.0	1	5.0	1	3.0	(T)
River Rouge	-	-	1	1.73	24	31.5	(C-T)
MISSOURI							
Bridgeton (Airport)	3	11.4	1	-	0	-	-
St. Louis	15	5.5	6	7.3	14	13.0	(C)
NEW YORK							
Avon	18	-	196	8.0	37	-	-
Geneva	4	-	9	-	37	-	-
Jamestown	-	-	98	10.9	154	23.1	(C)
Newark	44	63.5	65	30.9	71	5.7	(C)
Niagara Falls	320	34.9	216	29.5	15	16.0	(C)
Ogdensburg	15	-	14	-	35	8.0	(C)
Silver Creek	-	-	104	16.4	60	8.0	(C)
Waterloo	-	-	33	5.0	171	8.0	(C)
Westfield	-	-	-	-	27	8.5	(C)
NORTH CAROLINA							
Blowing Rock	-	-	-	-	17,405	25.0	(C)
Burlington	62	2.9	3	-	0	-	-
Charlotte	12	-	25	17.8	33	-	-
Durham	27	15.1	5	8.8	38	6.1	(C)
Elizabeth City	53	-	31	23.3	38	6.1	(C)
Gastonia	-	-	106	31.1	192	6.0	(C)
Greensboro	98	58.6	19	14.5	192	6.0	(C)
Hendersonville	5	-	1,718	105.6	785	75.0	(C)
High Point	84	80.6	18	20.5	99	-	-
Raleigh	68	28.7	46	43.0	13	-	-
Reidsville	-	-	4	-	19	5.3	(C)
Rocky Mount	26	32.1	16	9.7	14	8.0	(C)
Salisbury	232	-	29	-	58	8.8	(C)
Weldon	15	-	9	12.1	0	-	-
Wilmington	52	9.3	18	-	38	3.2	(C)
Wilson	8	-	11	5.4	12	-	-
Winston-Salem	97	66.6	23	-	4	-	-
OHIO							
Ashtabula	108	43.2	38	42.0	169	43.0	(C)
Bellevue	-	-	213	123.1	135	16.4	(C)
Belpre	94	9.5	66	-	12	5.1	(C)
Bucyrus	5	7.9	0	-	0	-	-
Caldwell	1	-	1	3.3	1	3.3	(C)
Chillicothe	-	-	5	12.1	0	-	-
Cincinnati (Lunken Airport)	1	-	3	6.5	6	10.0	(C)
Conneaut	159	20.2	33	16.7	34	16.0	(C)
Crestline	-	-	20	28.4	19	16.0	(C)
East Conneaut	91	38.2	120	7.6	19	2.3	(C)
Fostoria	-	-	-	-	1	2.3	(C)
Fowlers Mill	-	-	-	-	1	2.3	(C)
Gallipolis	444	32.1	2,520	47.6	329	4.6	(C)
Lima	-	-	3	-	1	-	-
Lorain	-	-	12	1.9	7	10.5	(C)
Marietta	10	-	28	75.9	434	22.8	(C)
Marion	-	-	28	28.8	50	36.8	(C)
Mt. Vernon	-	-	2	6.9	0	-	-
Nelsonville	-	-	2	2.1	1	-	-
New Concord	1	-	3	2.3	19	27.6	(C)
Rockbridge	-	-	16	4.0	34	-	-
South Zanesville	1,076	46.8	31	1.5	29	10.9	(C)
Van Wert	1	3.0	0	-	4	6.5	(C)
Zanesville	1	4.9	5	10.2	-	-	-
SOUTH CAROLINA							
Florence	7	-	43	4.7	76	4.0	(D)
Greenville	18	-	16	7.0	20	-	-
TENNESSEE							
Bristol	-	-	2	-	5	1.0	(T)
Kingsport	-	-	-	-	5	4.0	(T)
VERMONT							
Barre	21	5.7	17	-	0	-	-

*All beetles caught in previously treated area. No soil treating required.

**Captures consisted of isolated, single beetles only. No soil treating required.

(C) Soil treating completed.

(D) Soil treating under discussion.

(P) Soil treating in progress.

(T) Soil treating planned or assured.

(C-T) Partially completed; balance assured Spring 1944.

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL
AT ISOLATED INFESTATIONS
1941-1944

State and City	Japanese Beetles Trapped 1941 (Number)	Soil Treatments Fall 1941 and Spring 1942 (Acres)	Japanese Beetles Trapped 1942 (Number)	Soil Treatments Fall 1942 and Spring 1943 (Acres)	Japanese Beetles Trapped 1943 (Number)	Soil Treatments Fall 1943 or Proposed for Spring 1944 (Acres)
VIRGINIA						
Bristol	-	-	7	-	24	2.0 (C)
Dayton	-	-	10	1.2	-	-
Harrisonburg	4	-	18	11.9	22	- (D)
Lexington	-	-	-	-	23	5.0 (D)
Luray	1	-	7	6.2	23	-
Lynchburg	0	-	-	-	25	7.5 (D)
Waynesboro	0	-	-	-	10	6.0 (D)
Woodstock	4	-	67	15.9	19	10.0 (D)

- * All beetles caught in previously treated area. No soil treating required.
- ** Captures consisted of isolated, single beetles only. No soil treating required.
- (C) Soil treating completed.
- (D) Soil treating under discussion.
- (P) Soil treating in progress.
- (T) Soil treating planned or assured.
- (C-T) Partially completed; balance assured Spring 1944.

STATE SUMMARY OF SOIL TREATMENTS

State	Fall 1941 and Spring 1942	Fall 1942 and Spring 1943	Fall 1943 or Proposed for Spring 1944	Total
Georgia	11.7	-	5.5	17.2
Illinois	169.8	66.4	216.5	452.7
Indiana	103.55	24.6	156.6	284.75
Michigan	72.35	92.23	162.2	324.23
Missouri	16.9	7.2	13.0	37.2
New York	98.4	100.7	72.9	272.0
North Carolina	302.2	292.1	142.5	737.8
Ohio	205.8	423.9	232.6	862.6
South Carolina	-	11.7	4.0	15.7
Tennessee	-	-	5.0	5.0
Vermont	5.7	-	-	5.7
Virginia	-	35.2	30.5	65.70
	987.85	1,061.13	1,041.6	3,090.58